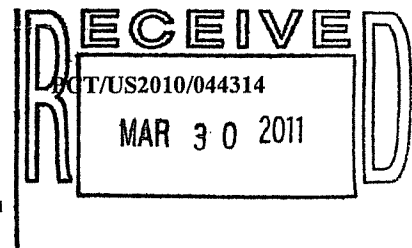


PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY



To:

HUNT GREGORY A.

JENKINS, WILSON, TAYLOR & HUNT, P.A. SUITE 1200,
UNIVERSITY TOWER 3100 TOWER BOULEVARD
DURHAM NC 27707 USA

** Pending
US cases*

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year) 24 MARCH 2011 (24.03.2011)

Applicant's or agent's file reference

1497/154 PCT

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/US2010/044314

International filing date
(day/month/year)

03 AUGUST 2010 (03.08.2010)

Applicant

GENBAND US LLC et al

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 . 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:**

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. Following the expiration of 30 months from the priority date, these comments will also be made available to the public.

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90bis.1 and 90bis.3).

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the PCT Applicant's Guide, National Chapters.

Name and mailing address of the ISA/KR



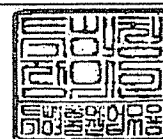
Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-8754



Form PCT/ISA/220 (July 2010)

DOCKET DATES: 4/24/11; 5/17/11; 5/24/11
 ASSIGNED ATTY: GAH
 FILE NO. 1497/154 PCT
 DOCKETED BY: PAA DATE: 3/21/11

A IDS ARE 6/24/11
 for 1497/154 PCT
 1809/52/2

* Attention

Copies of the documents cited in the international search report can be searched in the following Korean Intellectual Property Office English website for three months from the date of mailing of the international search report.

<http://www.kipo.go.kr/en/> => PCT Services => PCT Services

ID : PCT international application number

PW : **ERAM9DSB**

Inquiries related to PCT International Search Report or Written Opinion prepared by KIPO as an International Searching Authority can be answered not only by KIPO but also through IPKC (Intellectual Property Korea Center), located in Vienna, VA, which functions as a PCT Help Desk for PCT applicants.

Homepage: <http://www.ipkcenter.com>

Email: ipkc@ipkcenter.com

Phone: +1 703 388 1066

Fax: +1 703 388 1084

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1497/154 PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2010/044314	International filing date (<i>day/month/year</i>) 03 AUGUST 2010 (03.08.2010)	(Earliest) Priority Date (<i>day/month/year</i>) 04 AUGUST 2009 (04.08.2009)
Applicant GENBAND US LLC et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

☒ the international application in the language in which it was filed

☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figure is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/044314**A. CLASSIFICATION OF SUBJECT MATTER****H04L 12/66(2006.01);**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04L 12/66; H04J 1/16; H04J 3/14; H04M 1/00; H04L 12/56

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: DSP, resource, switch

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006-0133353 A1 (SIHAI WANG et al.) 22 June 2006 See abstract; paragraphs [21]-[38] and [47]-[50]; claims 1-4; figures 4-6.	1-27
A	US 2007-0041320 A1 (WEISHENG CHEN et al.) 22 February 2007 See abstract; paragraphs [10]-[12] and [24]-[25]; claim 1; figures 3 and 4.	1-27
A	US 2004-0228279 A1 (JAMES DEAN MIDTUN et al.) 18 November 2004 See abstract; paragraphs [12]-[18] and [34]-[38]; claims 1-7; figures 1-4.	1-27
A	US 2008-0008312 A1 (SAI SURESH GANESAMOORTHY et al.) 10 January 2008 See abstract; paragraphs [22]-[23], [34]-[41] and [44]-[49]; claims 1-6; figures 2 and 3.	1-27



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

24 MARCH 2011 (24.03.2011)

Date of mailing of the international search report

24 MARCH 2011 (24.03.2011)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Yoon, Yeomin

Telephone No. 82-42-481-5948



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2010/044314

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2006-0133353 A1	22.06.2006	AT 447829 T	15.11.2009
		CN 100579113 C	06.01.2010
		CN 1798137 A	05.07.2006
		DE 602005017462 D1	17.12.2009
		EP 1675412 A2	28.06.2006
		EP 1675412 A3	08.08.2007
		EP 1675412 B1	04.11.2009
		JP 2006-186982 A	13.07.2006
		US 7656863 B2	02.02.2010
US 2007-0041320 A1	22.02.2007	CN 101341730 A	07.01.2009
		EP 1915850 A2	30.04.2008
		US 7792150 B2	07.09.2010
		WO 2007-022461 A2	22.02.2007
		WO 2007-022461 A3	28.06.2007
		WO 2007-022461 A3	22.02.2007
US 2004-0228279 A1	18.11.2004	US 7724671 B2	25.05.2010
US 2008-0008312 A1	10.01.2008	US 2008-0159524 A1	03.07.2008
		US 2008-159524 A1	03.07.2008
		US 7369502 B2	06.05.2008

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

HUNT GREGORY A.

JENKINS, WILSON, TAYLOR & HUNT, P.A. SUITE 1200,
UNIVERSITY TOWER 3100 TOWER BOULEVARD
DURHAM NC 27707 USA

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) **24 MARCH 2011 (24.03.2011)**

Applicant's or agent's file reference
1497/154 PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/US2010/044314

International filing date (day/month/year)

03 AUGUST 2010 (03.08.2010)

Priority date(day/month/year)

04 AUGUST 2009 (04.08.2009)

International Patent Classification (IPC) or both national classification and IPC

H04L 12/66(2006.01)i

Applicant

GENBAND US LLC et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
Government Complex-Daejeon, 139
Seonsa-ro, Seo-gu, Daejeon 302
-701, Republic of Korea
Facsimile No. 82-42-472-7140

Date of completion of this opinion

24 MARCH 2011 (24.03.2011)

Authorized officer

Yoon, Yeomin

Telephone No.82-42-481-5948



**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2010/044314

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of:

a. a sequence listing filed or furnished

- ☐ on paper
- ☐ in electronic form

b. time of filing or furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US2010/044314

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-27	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-27	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-27	YES
	Claims	NONE	NO

2. Citations and explanations :

Reference is made to the following documents:

D1: US 2006-0133353 A1 (SIHAI WANG et al.) 22 June 2006
D2: US 2007-0041320 A1 (WEISHENG CHEN et al.) 22 February 2007
D3: US 2004-0228279 A1 (JAMES DEAN MIDTUN et al.) 18 November 2004
D4: US 2008-0008312 A1 (SAI SURESH GANESAMOORTHY et al.) 10 January 2008

1. Novelty and Inventive Step

1.1 Claims 1-13

The subject matter of claim 1 differs from these prior art documents in that it is determined whether predetermined conditions exist for DSP-less Internet protocol to Internet protocol (IP-IP) switching for a call, and the DSP-less IP-IP switching for the call is implemented in the media gateway. And it is not obvious to a person skilled in the art by the documents, taken alone or in combination. Therefore, claim 1 meets the requirements of PCT Article 33(2) and (3) with respect to novelty and inventive step.

Claims 2-13 are dependent on claim 1 and therefore meet the requirements of PCT Article 33(2) and (3).

1.2 Claims 14-26

Independent claim 14 has the same technical feature of claim 1 except for the category. Thus, claim 14 is considered to be novel and to involve an inventive step under PCT Article 33(2) and (3), because the subject matter of claim 1 is considered to be novel and to involve an inventive step under PCT Article 33(2) and (3).

Claims 15-26 are dependent on claim 14 and therefore meet the requirements of PCT Article 33(2) and (3).

1.3 Claim 27

Independent claim 27 has the same technical feature of claim 1 except for the category. Thus, claim 27 is considered to be novel and to involve an inventive step under PCT Article 33(2) and (3), because the subject matter of claim 1 is considered to be novel and to involve an inventive step under PCT Article 33(2) and (3).

2. Industrial Applicability

Claims 1-27 are industrially applicable under PCT Article 33(4).